

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference			OCT (TDT 1/41/				
PC-21005025	FOR FURTHER ACTION See Form PCT/IPEA/416						
International application No.	International filing date (day/month/year) Priority		Priority date (day/month/year)				
PCT/SE 2003/001444	16.09.2003		16.09.2002				
International Patent Classification (IPC) of	or national classification and	IPC					
B23K 35/04, B23K 35/40, B23K 9/24							
Amiliant							
Applicant D. Ot ol							
ESAB AB et al							
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 							
2. This REPORT consists of a total	of 4 sheets,	including this cove	r sheet.				
3. This report is also accompanied by ANNEXES, comprising:							
	4 4- 4h - Indonesia 1 1 1 1 1 1 1 1 1	······································	sheets, as follows:				
		·					
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
			rity considers contain an amendment that goes				
beyond the d Supplementa		al application as file	d, as indicated in item 4 of Box No. I and the				
b. (sent to the Internation			number of electronic carrier(s))				
readable form only, a			g and/or tables related thereto, in computer to Sequence Listing (see Section 802 of the				
Administrative Instru			•				
4. This report contains indications re	elating to the following iten	ns:					
Box No. I Basis of	of the report						
Box No. II Priority	y .		•				
Box No. III Non-es	stablishment of opinion with	regard to novelty,	inventive step and industrial applicability				
Box No. IV Lack o	Box No. IV Lack of unity of invention						
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial						
	applicability; citations and explanations supporting such statement Box No. VI Certain documents cited						
	n defects in the international	l application					
Box No. VIII Certain observations on the international application							
Box 146. VIII Corani	1 COSCI VALIONS ON THE INTERNA	ational application					
Date of submission of the demand		Date of completion	n of this report				
		-	-				
05.04.2004		28.10.200	4				
Name and mailing address of the IPEA/SE		Authorized officer					
Patent- och registreringsverket							
Box 5055 S-102 42 STOCKHOLM		Lars Henn:	ix/MP				
Facsimile No. +46 8 667 72 88			6 8 782 25 00				

Box	No. I	Basis of the report
1.	With r	egard to the language, this report is based on the international application in the language in which it was filed, unlesse indicated under this item.
		This report is based on a translation from the original language into the following language , which is the language of a translation furnished for the purposes of:
		international search (under Rules 12.3 and 23.1(b))
		publication of the international application (under Rule 12.4)
		international preliminary examination (under Rules 55.2 and/or 55.3)
2 .	furnish	egard to the elements of the international application, this report is based on (replacement sheets which have been to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed anot annexed to this report):
	\boxtimes	the international application as originally filed/furnished
		the description:
		pages as originally filed/furnished
		pages* received by this Authority on
		pages* received by this Authority on
		the claims:
		pages as originally filed/furnished
		pages* as amended (together with any statement) under Article 19
		pages* received by this Authority on
		pages* received by this Authority on
		the drawings:
		pages as originally filed/furnished pages* received by this Authority on
		pages* received by this Authority on pages* received by this Authority on
		a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.
3.		The amendments have resulted in the cancellation of:
		the description, pages
		the claims, Nos.
		the drawings, sheets/figs
		the sequence listing (specify):
		any table(s) related to the sequence listing (specify):
4.		This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rui 70.2(c)).
		the description, pages
		the claims, Nos.
		the drawings, sheets/figs
		the sequence listing (specify):
		any table(s) related to the sequence listing (specify):
	IC ·-	
•	IJ item	applies, some or all of those sheets may be marked "superseded."

Box No. V	Reasoned statement u	nder Article 3 ions supporti	35(2) with regard to novelty, inventive step or industrial applicability; ng such statement	
1. Statement	:			
Nove	lty (N)	Claims Claims		YES NO
Inven	tive step (IS)	Claims Claims		YES NO
Indust	rial applicability (IA)	Claims Claims		YES NO

2. Citations and explanations (Rule 70.7)

The following documents were cited in the International Search Report:

D1: US6426483 A1 D2: US4471208 A1 D3: GB1481140 A1 D3: US1940573 A1

The invention according to claim 1 refers to a welding electrode for manual metal-arc welding. The electrode according to claim 1 comprises an electrode core with an ignition part comprising an ignition surface. The electrode is characterized in that the ignition part is provided with recesses which open into the longitudinal surface of the electrode core.

The invention according to claim 1 intends to solve the problem of providing a welding electrode with a reduced area section in the ignition part, thereby providing good ignition properties.

The invention according to claim 12 refers to an apparatus for the manufacturing of electrodes characterized in that it is provided with means for forming a slit in the end part of the electrodes and holding means in which the electrodes are collected prior to being moved to the slitting means.

The invention according to claim 12 solves the problem of providing an apparatus in which a manual metal-arc electrode with reduced area section in the ignition part can be manufactured.

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International application No.

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: Box V

refers to a wire-electrode for continuous metal welding. The wire is provided with indentations along its The indentations solve the problem of providing improved droplet transfer from the wire to the work piece in combination with a pulse welding process (col. 2, lines 15-45; 10-59). 9, lines Thus, not being directed towards ignition of manual welding electrodes, D1 has reconsidered to be of no particular relevance in view of the invention defined in claim 1.

D2 refers to a welding electrode for TIG-welding. The tip of the electrode is provided with a slot, the purpose of the slot is to protect the electrode from being coated with metal vaporized from the surface of the weld pool (col. 1, lines 5-15; col. 1, lines 46-56). D2 does not refer to the ignition of metal arc electrodes for manual welding. Consequently, the document has been reconsidered to be of no particular relevance in view of the invention defined in claim 12.

Documents D3 and D4 further describe the prior art.

Consequently, the electrode according to claims 1-11 and the apparatus according to claims 12-31 are considered to be novel, to involve an inventive step and to be industrially applicable.